

Title (en)
SINTERED POROUS STRUCTURE AND METHOD OF MAKING SAME

Title (de)
GESINTERTE PORÖSE STRUKTUR UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
STRUCTURE POREUSE FRITTÉE ET SON PROCÉDÉ DE FABRICATION

Publication
EP 2231384 A4 20110119 (EN)

Application
EP 07874388 A 20071221

Priority
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Abstract (en)
[origin: WO2009082402A1] Simple, low cost methods of manufacturing highly porous structures are provided. The methods involve building up porous structures with elements shaped to provide the desired strength, porosity and pore structure of the porous structure and then sintering the elements together to form the structure. Also provided are novel sintered porous structures made up of sintered non-spherical elements. In certain embodiments, the shaped green elements and the porous structure are simultaneously sintered. Also provided are novel sintered porous structures made up of sintered non-spherical elements.

IPC 8 full level
B29C 65/00 (2006.01); **C04B 38/00** (2006.01); **H01M 8/00** (2006.01)

CPC (source: EP US)
B22F 3/1121 (2013.01 - EP US); **B22F 7/002** (2013.01 - EP US); **B29C 67/04** (2013.01 - EP US); **C04B 37/005** (2013.01 - EP US); **C04B 38/0038** (2013.01 - EP US); **H01M 8/0236** (2013.01 - EP US); **H01M 8/1231** (2016.02 - EP US); **B01J 2219/30223** (2013.01 - EP US); **B01J 2219/30296** (2013.01 - EP US); **B01J 2219/30416** (2013.01 - EP US); **B29C 43/006** (2013.01 - EP US); **B29K 2105/04** (2013.01 - EP US); **C04B 2111/00793** (2013.01 - EP US); **C04B 2111/00853** (2013.01 - EP US); **C04B 2237/064** (2013.01 - EP US); **C04B 2237/343** (2013.01 - EP US); **H01M 2008/1293** (2013.01 - EP US); **Y02E 60/50** (2013.01 - EP); **Y02P 70/50** (2015.11 - EP US); **Y10T 428/249953** (2015.04 - EP US)

Citation (search report)
• [X] US 3819439 A 19740625 - TAYLOR R
• [XI] EP 1291061 A1 20030312 - NGK INSULATORS LTD [JP]
• [XI] US 2007131609 A1 20070614 - RAMASWAMY VIDYA [US], et al
• See references of WO 2009082402A1

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WO 2009082402 A1 20090702; AU 2007362807 A1 20090702; BR PI0722314 A2 20140422; CA 2709198 A1 20090702; CN 101945751 A 20110112; EP 2231384 A1 20100929; EP 2231384 A4 20110119; JP 2011520740 A 20110721; KR 20100116586 A 20101101; RU 2010129965 A 20120127; US 2011033772 A1 20110210

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US 2007088703 W 20071221; AU 2007362807 A 20071221; BR PI0722314 A 20071221; CA 2709198 A 20071221; CN 200780102367 A 20071221; EP 07874388 A 20071221; JP 2010539408 A 20071221; KR 20107016131 A 20071221; RU 2010129965 A 20071221; US 80945510 A 20100928